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10/532,017	04/20/2005	Gunter Fuhr	B1180/20035	5994
	7590 02/19/201 ISE, BERNSTEIN,	EXAMINER		
COHEN & POR	KOTILOW, LTD.	ALI, MOHAMMAD M		
11TH FLOOR, SEVEN PENN CENTER 1635 MARKET STREET			ART UNIT	PAPER NUMBER
PHILADELPH	IA, PA 19103-2212		3744	
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

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	Application No.	Applicant(s)
	10/532,017	FUHR ET AL.
Office Action Summary	Examiner	Art Unit
	MOHAMMAD M. ALI	3744
The MAILING DATE of this communication ap	ppears on the cover sheet with t	he correspondence address
Period for Reply		
A SHORTENED STATUTORY PERIOD FOR REPI WHICHEVER IS LONGER, FROM THE MAILING I - Extensions of time may be available under the provisions of 37 CFR 1 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period Failure to reply within the set or extended period for reply will, by statu Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNICAT 1.136(a). In no event, however, may a reply d will apply and will expire SIX (6) MONTHS tte, cause the application to become ABAND	FION. be timely filed from the mailing date of this communication. ONED (35 U.S.C. § 133).
Status		
Responsive to communication(s) filed on 23. This action is FINAL . 2b) ☐ The 3 ☐ Since this application is in condition for allowed closed in accordance with the practice under	is action is non-final. ance except for formal matters	
Disposition of Claims		
4) Claim(s) 1-26 is/are pending in the applicatio 4a) Of the above claim(s) 21-26 is/are withdra 5) Claim(s) is/are allowed. 6) Claim(s) 1-20 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/	awn from consideration.	
Application Papers		
9) The specification is objected to by the Examin 10) The drawing(s) filed on is/are: a) acceptable and applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Examination.	ecepted or b) objected to by the drawing(s) be held in abeyance. Section is required if the drawing(s) is	See 37 CFR 1.85(a). s objected to. See 37 CFR 1.121(d).
Priority under 35 U.S.C. § 119		
12) Acknowledgment is made of a claim for foreig a) All b) Some * c) None of: 1. Certified copies of the priority documer 2. Certified copies of the priority documer 3. Copies of the certified copies of the pri application from the International Burea * See the attached detailed Office action for a list	nts have been received. nts have been received in Appl ority documents have been rec au (PCT Rule 17.2(a)).	ication No eived in this National Stage
Attachment(s)	_	
 Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 	Paper No(s)/Ma	nary (PTO-413) ail Date nal Patent Application

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Election/Restrictions

Claim21-26 have been withdrawn from further consideration pursuant to 37 CFR 1.142(b), as being drawn to a nonelected group, there being no allowable generic or linking claim. Applicant timely traversed the restriction (election) requirement in the reply filed on 02/04/10.

Applicant's election with traverse of 02/04/10 in the reply filed on 10/05/09 is acknowledged. The traversal is on the ground(s) that the dependent claims further clarifying structures recited in the related independent claim is not cause of restriction. This is not found persuasive because the newly submitted claims 21-23 are directed to an invention that is independent or distinct from the invention originally claimed for the following reasons: as discussed earlier

Since applicant has received an action on the merits for the originally presented invention, this invention has been constructively elected by original presentation for prosecution on the merits. Accordingly, claims 21-23 have been withdrawn from consideration as being directed to a non-elected invention. See 37 CFR 1.142(b) and MPEP § 821.03.

The requirement is still deemed proper and is therefore made FINAL.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

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Claims 1--13, 15-19 and 20 are rejected under 35 U.S.C. 103 (a) as being unpatentable over Smollett et al (3,292,424). Smollett et al disclose a cry storage device 22, and at least one data storage device 69 (The examiner considering relay as a data store device to store data when to operate the relay), and at least one sample receptacle device 77 with at least one sample chamber (the duct portion dipped in the oil sample 72) for the uptake of suspension sample, the at least one sample chamber 82 being connected to at least one data storage device 69 through fluid contained in the fluid chamber 15 and having elongated hollow shaped that extends from an inlet end located neat the bottom 80 of the container 70 over a predetermined length to an outlet end having a wider diameter 99, wherein one sample chamber 82 is attached to the at least one data storage device 69 in a flexible (the conduit 82 being coiled is flexible and data storage device 69 is connected to 82 through fluid by a flexible electric cable 68 and movably and hanging manner. For claim 16 for mechanical separation see Fig.2 where conduit 84 has been mechanically separated from its continuity.

Regarding claims 1 and 12 the above disclosure of Smollett et al obviously disclose the limitations of claims 1 and 12.

Regarding claim 2, Smollett et al disclose that the at least

one sample chamber (72/82 is a hollow cylinder, see Fig. 1) is a hollow cylinder, a hollow cone, a pipe, a tube, or a hollow needle.

Regarding claim 3, Smollett et al disclose that the at least

one sample chamber (82) consists of a flexible, bendable material.

Regarding claim 4, Smollett et al disclose that the at least

one sample chamber (72) is provided with at least one of a sensor (39), a temperature sensor, and

cooling surfaces.

Regarding claim 5, Smollett et al disclose that the at least

one data storage (69) device comprises at least one data storage with a housing, the housing

being connected with the at least one sample receptacle (15/82) device.

Regarding claim 6 for multiplicity of data store is an obvious duplication of single data

storage.

There is no patentable significance unless a new and unexpected result is produced. See

MPEP 2144.03 (VI). Since it has been held that mere duplication of the essential working parts

of a device involves only routine skill of art. St. Regis Paper Co. V. Bemis Co., 193 USPQ 8.

Regarding claim 7, Smollett et al disclose that a cross-

sectional dimension of the at least one sample chamber (99) varies along a length of the at least

one sample chamber, so that at least one sub-chamber with a cross-sectional dimension that is

larger than cross-sectional dimensions of the inlet and outlet openings is provided. See Fig. 1.

provided. See Fig. 1.

Regarding claim 8, Smollett et al disclose that the at least one sample receptacle device (11) comprises a plurality of sample chambers (13, 15) connected with one another at their exterior walls, so that an integral, flexible sample chamber block is

Regarding labeling for claim 9 is a known feature in the art would be obvious implementation with Smollett et al.

Regarding claim 10, Smollett et al disclose that an attachment device (66) is provided, with which the at least one sample chamber (15/82) is attached to the at least one data storage device (69) through the electric lead (68).

Regarding claim 11, Smollett et al disclose that the

attachment device (66) comprises strips arranged individually or as a bundle, each of the strips having a first and a second end with a sample chamber (15) attached to the first end and the at least one data storage device (69) attached to the second end.

into a low-temperature state by positioning at least a part of the cryostorage device in a cryomedium.

Regarding claim 13, Smollett et al disclose that the uptaking comprises dipping the at least one sample chamber (99) with an inlet end in a sample reservoir and transferring of the suspension sample as a result of a reduced pressure

applied at a corresponding outlet end or of capillary forces. The inlet end of chamber (99) being narrower then the chamber (99), the pressure of samples after entering into the chamber (99) having wider space drops the pressure of the sample.

Regarding claim 15, Smollett et al disclose that at least one partial sample is detached from the at least one sample chamber (99/90) in the low-temperature state by mechanical separation (by pump 103).

Regarding claim 16, Smollett et al disclose that during the mechanical separation a local heating (local heating is being provided by bleed valve 107 by allowing comparatively high temperature bleed air which is not cooled by the cooling system of Smollett et al as shown in Fig. 1) of the respective sample chamber in a vicinity of the at least one partial sample that is to be separated or a separation at an attachment device between the respective sample chamber and the data storage device occurs. See Fig. 1.

Regarding claim 17 for sealing sample is also a known feature in the art and would be an obvious implementation with Smollett et al. However, at the metering pumps (86/103) are provided with some kind of sealing device or valve arrangement so that the pumps can meter according to the direction of a control device.

Regarding claims 18, 19 and 20, Smollett et al disclose to reduce up to 25 degree F as shown in column 2 of table of a test result. However, Smollett et al., do not disclose a reduced

temperature less than 100 degree C. It is known that a cryogenic apparatus is able to reduce temperature of an environment less than -100 degree C. Therefore, it would be an obvious choice of an ordinary skill to choose a reduced temperature of less than -100 degree temperature. It is also mentioned that creation of cryogenic temperature below 100 degree C is well known in the art. For evidentiary reference, see US Patent 4,739,622 to Smith, column 6, line 53.

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In another way choosing a specific cooling value like less -100 C is simply discovering an optimum value of a result effective variable.

It is further mentioned that it has been held that discovering an optimum value of a result effective variable involves only routine skill in the art. In re Boesch, 617 F.2d 272,205 USPQ 215 (CCPA 1980).

The factual inquiries set forth in *Graham* v. *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

- 1. Determining the scope and contents of the prior art.
- 2. Ascertaining the differences between the prior art and the claims at issue.
- 3. Resolving the level of ordinary skill in the pertinent art.
- 4. Considering objective evidence present in the application indicating obviousness or nonobviousness.

Claim 14 is rejected under 35 U.S.C. 103(a) as being unpatentable over Smollett et al., in view of Takiue (20020007256 A1). Smollett et al., disclose the invention substantially as claimed as stated above except measured data and reference data. Takiue teaches the use of a measured-data process center 32 comprises a data-storage 33, an analyzer 34. The data-storage

33 stores previously reference data in order to analyze the measured data. Therefore, it would have been obvious to one having ordinary skill in the art at the time the invention was made to modify the device and method of Smollett et al., in view of Takiue such that a data-storage capable of storing measured-data and reference data and analyze the measured-data with reference-data in order to obtain a desired analysis of the data.

Response to Arguments

Applicant's arguments filed 07/23/09 have been fully considered but they are not persuasive.

The Applicants argue that the thermal regulator switch 66 that is sensing the temperature of the chamber 15, is clearly not sensing the temperature of the duct cable 82 or of the sample 72.

The examiner disagrees. Above argument is contradictory because while sensing a temperature in a chamber containing the other element being cause of the temperature is not persuasive. The sensor which is capable to senesce a temperature in chamber, the sensor is also capable to sense the temperature of any element in the chamber inkling the temperature of the duct 82.

The Applicants further argue that Smollett does not disclose a sample chamber being directly attached to the data storage device.

The Examiner disagrees. The chamber 15 is directly attached with duct 82 and the data storage chamber 69 is directly attached with chamber 15. Therefore, Smollett et al either anticipates or obviously teach that the data storage 69 is directly attached with chamber 15 or duct 82.

In response to applicant's argument that the examiner's conclusion of obviousness is based upon improper hindsight reasoning, it must be recognized that any judgment on obviousness is in a sense necessarily a reconstruction based upon hindsight reasoning. But so long as it takes into account only knowledge which was within the level of ordinary skill at the time the claimed invention was made, and does not include knowledge gleaned only from the applicant's disclosure, such a reconstruction is proper. See *In re McLaughlin*, 443 F.2d 1392, 170 USPO 209 (CCPA 1971).

The Applicants further argue that Takiue does not teach at least one data memory chip adapted to store a plurality of data for claim 12 and 14.

The data memory chip is not the claimed subject matter of claims 12 and 14. It indicates from the above argument that the Applicants are arguing which not claiming.

Therefore, the rejections are ok. However, for allowing further scope the finality has been with drawn and a non-final has been forwarded to make the claims in allowable form.

The Applicant argued that Smollett does not disclose a cry storage device comprising at least one data storage device including at least one data storage adapted to store a plurality of data under cryo conditions. The examiner disagrees. First the claims do not disclose such disclosure and though no claims disclose such element, Smollett et al., disclose a cryo storage device 22 and one data storage device 69. The examiner considers that Smollett et al's data storage stores plurality of data because it works on plurality of switches 66 and 63. The applicant further argued that the components are not adapted for storing the sample under cryogenic conditions, for example, at very low temperature under -50 degree C. The examiner again disagrees. No claim under 102 rejections discloses such element. Therefore, the argument is not

valid for the 102 rejections. The container is sufficiently insulated to undergo a test requiring - 25 degree F which is equivalent to -30 degree C. As may seen in the Table in column 6. Therefore, it is obvious that the container is sufficiently insulated that it could withstand at any less temperature including – 50 degree C. Therefore, the argument is not correct. Therefore, the rejections are ok.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to MOHAMMAD M. ALI whose telephone number is (571)272-4806. The examiner can normally be reached on maxiflex.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Cheryl J. Tyler can be reached on 571-272-4808. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

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